Natural Resources and Environment Programs-I

USDA/CSREES Grantsmanship Workshop

Natural Resources and Environment Programs-I

Program Name	National Program Leader	Program Specialist
Soil Processes	Nancy Cavallaro	Alexandra Raver
Integrated Water Quality (406)	Michael O'Neill	Lisa Duriancik
Water and Watersheds	Mary Ann Rozum	Alexandra Raver
Air Quality	Raymond Knighton	Lisa Duriancik

Soil Processes

- Goals & Priorities FY 06
  - Interdisciplinary, related to soil quality, especially water and nutrients and their relationship to productivity and environmental quality
  - New tools and strategies to enhance understanding of soil quality, productivity, and environmental quality

Soil Processes

Significant Changes For FY 2007

- Letters of intent required (December 6)
  - Response will be to encourage submission of a full proposal, or to reject
  - Evaluation based on relevance, scientific merit, potential impact
- Multi-scale research encouraged
- Dynamic soil properties emphasized

Soil Processes

Funding Year	2005	2006
# of proposals	144	107
# of proposals awarded	17	17
% success	11.8	15.9
Average award size (standard)	352,300	280,000
Average award duration	2.6 yrs	2.4 yrs

National Integrated Water Quality (406)

Program Philosophy

- Identify major water resource issues to be addressed by USDA-CSREES Water Resources Program
- Define narrow focus areas for projects (e.g., Conservation Effects Assessment Project)
- Fund watershed scale focus areas for 3-4 years to build a “cohort” of projects within a focus area
- Develop a synthesis of the knowledge gained and identify the remaining challenges in focus areas

National Integrated Water Quality (406)

Underlying Questions

- What are the human impacts (positive and negative) on agricultural, rural, and urbanizing watersheds?
- What science, education, outreach, and technology is needed to reverse or reduce negative impacts or promote positive impacts of human activity in agricultural, rural, and urbanizing watersheds?

National Integrated Water Quality (406)

Funding Tools

- National Integrated Water Quality Program - $12 M
  - Regional Water Quality Coordination Projects - $6 M
  - Watershed and National Projects - $4 M
  - Conservation Effects - $3 M (includes $1 M from NRCS)

National Integrated Water Quality (406 – Including CEAP)

Funding Year	2005	2006
# of proposals	71	72
# of proposals awarded	14	16
% success	20	22
Average award size (standard)	$493,000	$431,000
Average award duration	3 yrs	3 yrs

Water and Watersheds

Goals & Priorities

- Pathogen source, fate, and transport in soil and water
- Water conservation producer behavior

Water and Watersheds

New for 2007

- Broader focus on viruses in water
- Emphasis on hydrology, economic and policy issues on water conservation

Water and Watersheds

Funding Year	2005	2006
# of proposals	153	53
# of proposals awarded	9	12
% success	6	22.64
Average award size (standard)	406,778	394,762
Average award duration	--	2.9 yrs

Air Quality

Goals & Priorities

- Research
  - Fate and transport of agriculturally important air pollutants
  - Characterization of particulate matter

- Integrated
  - Measurement and monitoring methods as well as fluxes for air emissions from agricultural practices
  - Fate and transport of agriculturally important air pollutants
  - Mitigation practices to reduce or prevent emissions

Air Quality

- Significant Changes For FY 2007
  - Increased funding cap for integrated projects to $600k
  - Decreased funding cap for research only projects to $400k
  - More emphasis placed on crop production/forestry systems than animal systems
  - Higher priority placed on emissions of volatile organic compounds

Air Quality
Program Statistics

Funding Year	2004	2005
# of proposals	46	42
# of proposals awarded	11	12
% success	23.9	28.6
Average award size (standard)	$455 K	$441 K
Average award duration	2.5 yrs	2.8 yrs

2007 NRI Electronic Submission

- The NRI is **requiring** electronic submission in FY 2007 through Grants.gov.

- All attachments **MUST** be in PDF format.